

I. Amendments to the Claims

Please amend the claims as follows with the following version of the claims in accordance with revised 37 CFR § 1.121.

1. (Canceled) .

2. (Canceled) .

3. (Canceled) .

4. (Canceled) .

5. (Canceled) .

6. (Canceled) .

7. (Canceled) .

8. (Canceled) .

9. (Canceled) .

10. (Canceled) .

11. (Amended) A method for enabling a program written in untrusted code to access a native operating system resource, comprising the steps of:

having a trusted login service listen on a named pipe for login requests for login credentials;

responsive to a login request, wherein the login request contains an identifier for a uniquely-named response pipe, having the trusted login service request a native operating system identifier;

10 returning to the program via the uniquely-named * response pipe the native operating system identifier, wherein the uniquely-named response pipe and the named pipe are not identical;

15 in an authentication framework, using the native operating system identifier to create a credential object; and using the credential object to login to the native operating system to enable the program to access the resource.

12. (Amended) The method as described in claim 11 wherein
20 the native operating system supports named-pipe servers. is
~~Windows NT.~~

13. (Amended) The method as described in claim 12 wherein
the program is written in an interpreted ~~a language selected~~
~~from Java, ActiveX, and Visual Basic.~~

5 14. (Original) The method as described in claim 11 wherein
the authentication framework is a pluggable authentication
mechanism (PAM) having a set of application programming
interfaces (APIs).

10 15. (Original) The method as described in claim 14 wherein
the set of application programming interfaces include login,
commit, abort and logout APIs.

15 16. (Amended) The method as described in claim 14 wherein
the authentication framework is compliant ~~complaint~~ with an
authentication service of a virtual machine. ~~a Java~~
~~Authentication Service.~~

17. (Amended) A computer program product in a computer readable medium for enabling a program written in untrusted code to access a native operating system resource, the computer program product comprising the steps of:

5 means for listening on a named pipe by a trusted login service for login requests;

means responsive to a login request for requesting a native operating system identifier by the trusted login service, wherein the login request contains an identifier for a uniquely-named response pipe,;

means for returning to the program via the uniquely-named response pipe the native operating system identifier, wherein the uniquely-named response pipe and the named pipe are not identical;

15 in an authentication framework, using the native operating system identifier to create a credential object; and
using the credential object to login to the native operating system to enable the program to access the resource.-

~~means for listening for requests for login credentials,~~

20 ~~means responsive to a login request for making a request for a native operating system identifier,~~

~~means for sending the native operating system identifier to the program,~~

~~means for using the native operating system identifier to
create a credential object, and~~

~~means for using the credential object to login to the
native operating system to enable the program to access the
resource.~~

5
18. (Amended) The computer program product as described
in claim 17 wherein the program executes in a virtual machine
supported by the native operating system ~~is a Java program and~~
10 the native operating system supports named-pipe servers. ~~is~~
~~Windows NT.~~

19. (Amended) The computer program product as described
in claim 17 wherein the program is written in an interpreted
15 language. ~~the means for listening step is a login service.~~

20. (Amended) The computer program product as described
in claim 17 wherein the authentication framework is compliant
with an authentication service of a virtual machine.
20 ~~the credential object is created in an authentication~~
~~framework.~~

21. (Amended) An application server, comprising:
a set of ~~Java~~TM ~~programs~~ that are supported by a virtual
machine that is supported by a native operating system;
a processor running the ~~a~~ native operating system
5 providing support for executing the set of ~~Java~~ programs; and
means for enabling each ~~Java~~ program in the set of
programs to run in an operating system thread while
impersonating as a different native operating system user in
accordance with a token that was created during a login
10 operation in the native operating system and that was
associated with a program while the program was acting as a
named-pipe server to listen for a login response on a named
pipe that was uniquely created for a login request to obtain
the token, wherein the login request contained an identifier
15 for the named pipe.

22. (Amended) The application server as described in
claim 21 wherein the native operating system supports
named-pipe servers. ~~is Windows NT.~~

23. (Amended) The application server as described in
claim 21 further including a server application executed by
the processor for receiving a request for service from a
client machine and initiating execution of a program in the
set of programs ~~one of the Java programs~~ in a given operating
system thread.
